

# Cytometer Performance Report

**Cytometer:** FACSCantoII  
**Cytometer Name:** FACSCantoII  
**Serial Number:** V33896201821  
**Input Device:** Carousel  
**Tube Loaded Manually:** Yes  
**Cytometer Configuration:** Euroflow 3-laser, 8-color (4-2-2)

**User:** Administrator  
**Institution:** N/A  
**Software:** BD FACSDiva 8.0.2  
**Date:** 01/07/2019 10:07 AM  
**Cytometer Baseline:** 01/02/2019 10:47 AM  
**P/F:** Pass

## Setup Beads

**Bead Product:** CST Setup Beads **Part #:** 910859  
**Lot ID:** 72756 **Expiration Date:** 10/31/2019  
**Bead Lot Information:** Available

## Detector Settings

| Laser  | Detector | Parameter   | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|--------|----------|-------------|--------------|---------------------|---------------------------|-------------------------|-------------------------|----------------------|
| Blue   | FSC      | FSC         | 125000       | 123706              | -2                        | 2.22                    | 123817                  | 2.23                 |
| Blue   | F        | SSC         | 125000       | 122429              | -3                        | 3.92                    | 123317                  | 3.91                 |
| Blue   | E        | FITC        | 16694        | 16127               | -4                        | 3.91                    | 374                     | 22.12                |
| Blue   | D        | PE          | 32792        | 32123               | -3                        | 3.20                    | 707                     | 16.12                |
| Blue   | B        | PerCP-Cy5-5 | 44451        | 43987               | -2                        | 4.81                    | 1206                    | 23.57                |
| Blue   | A        | PE-Cy7      | 33645        | 33360               | -1                        | 7.06                    | 594                     | 48.92                |
| Red    | C        | APC         | 47008        | 46747               | -1                        | 3.15                    | 1803                    | 13.26                |
| Red    | A        | APC-Cy7     | 32298        | 31916               | -2                        | 2.99                    | 799                     | 14.06                |
| Violet | B        | V450        | 8961         | 8571                | -5                        | 4.45                    | 472                     | 14.86                |
| Violet | A        | V500        | 32726        | 31373               | -5                        | 4.18                    | 754                     | 11.54                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter   | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-------------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC         | 20155                   | 4.64                 | 606  | -7     | N/A    | N/A  | Pass |
| Blue   | F        | SSC         | 55371                   | 3.31                 | 574  | 6      | N/A    | N/A  | Pass |
| Blue   | E        | FITC        | 61                      | 72.32                | 562  | -1     | 0.0151 | 110  | Pass |
| Blue   | D        | PE          | 140                     | 57.39                | 566  | 0      | 0.1402 | 310  | Pass |
| Blue   | B        | PerCP-Cy5-5 | 221                     | 58.50                | 671  | 0      | 0.0071 | 80   | Pass |
| Blue   | A        | PE-Cy7      | 119                     | 116.36               | 726  | 0      | 0.0086 | 14   | Pass |
| Red    | C        | APC         | 414                     | 28.43                | 610  | -3     | 0.0199 | 152  | Pass |
| Red    | A        | APC-Cy7     | 196                     | 31.31                | 582  | -3     | 0.0046 | 867  | Pass |
| Violet | B        | V450        | 71                      | 68.76                | 484  | -2     | 0.0381 | 1875 | Pass |
| Violet | A        | V500        | 108                     | 39.54                | 494  | -2     | 0.0183 | 968  | Pass |

## Specifications

**PMTV Delta from baseline:** 50 (BD)  
**Violet Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Blue Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Red Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)

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## Laser Settings

| Laser  | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|--------|------------|------------------|--------------|-------------------------|------------------------|---------------------------------|---------------------|
| Violet | 59.55      | 47.98 - 71.98    | N/A          | N/A                     | -32.47                 | -31.98                          | 1.03                |
| Blue   | 20.35      | 16.27 - 24.41    | 1.26         | 0.99 - 1.49             | 0.00                   | 0.00                            | 1.51                |
| Red    | 17.22      | 13.60 - 20.40    | N/A          | N/A                     | 29.19                  | 29.65                           | 1.22                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.91

## Threshold

Threshold (FSC): 14252

## Fluidics

FACSFlow Pressure: 3.90  
Spec.: 3.80 - 4.00  
Sample Pressure: 3.60

Comments